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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373 7590 09/30/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON DC 20037 EXAMINER
CERULLO, JEREMY S
ART UNIT PAPER NUMBER
2111

DATE MAILED: 09/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,153	07/31/2007	Takeo Hosomi	Q96021	5617
TITLE OF INVENTION: M	TULTIPROCESSOR SYSTE	M AND METHOD FOR PROCESSING MEMORY ACCESS		

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmitting the IS ig the Patent, advance nerwise in Block 1, by	orders and notification of a (a) specifying a new corre	naintenance fees w spondence address;	ill be and/or	mailed to the current (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for
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							(Signature)
							(Date)
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/30/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
CERULLO,		2111	710-200000				
Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address for Change of Correspondence Address form (PIOSB/122) and Landend. "Fee Address" indication (or "Fee Address" Indication form PIOSB/147; see 0.03-02 or more cereal natached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			c or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent atto listed, no name will be	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp 3NEE	ified below, no assign pletion of this form is N	ee data will appear on the p OT a substitute for filing an (B) RESIDENCE: (CITY)	atent. If an assigne assignment. Y and STATE OR C	OUNT	RY)	
4a. The following fee(s): Issue Fee Publication Fee (N	o small entity discount p	permitted)	4b. Payment of Fee(s): (Plee A check is enclosed. Payment by credit ca The Director is hereb- overpayment, to Depo	rd. Form PTO-2038	is atta	ched.	shown above) ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be acceptes Patent and Tradem	pted from anyone other than a ark Office.	the applicant; a regis	stered a	ittorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
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This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450.	CFR 1.311. The information of U.S.C. 122 and 37 CF USPTO. Time will writen, should be sent to D NOT SEND FEES O	ation is required to obtain or R 1.14. This collection is es ary depending upon the indi- the Chief Information Offic R COMPLETED FORMS T	retain a benefit by the timated to take 12 no vidual case. Any corer, U.S. Patent and C O'THIS ADDRESS.	ne publ ninutes mment Fraden . SENI	ic which is to file (and to complete, includir s on the amount of tin ark Office, U.S. Dep O TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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	ANIA AVENUE, N.W	'.	ART UNIT	PAPER NUMBER		
SUITE 800 WASHINGTON,	DC 20037		2111 DATE MAIL ED: 09/30/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 183 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 183 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/586,153 HOSOMI ET AL. Notice of Allowability Examiner Art Unit Jeremy S. Cerullo 2111 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the amendment filed on 26 June 2009. 2. The allowed claim(s) is/are 15-26. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. __ 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application

U.S. Patent and Trademark Office
PTOL-37 (Rev. 08-06)

Examiner, Art Unit 2111

/J. S. C./

Paper No./Mail Date

of Biological Material

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

4. T Examiner's Comment Regarding Requirement for Deposit

Information Disclosure Statements (PTO/SB/08).

 Interview Summary (PTO-413), Paper No./Mail Date

9. ☐ Other .

/MARK RINEHART/

T Examiner's Amendment/Comment

8. X Examiner's Statement of Reasons for Allowance

Supervisory Patent Examiner, Art Unit 2111

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

2. Claim 15 is considered to be in condition for allowance, particularly due to the limitations of the last two sections of the claim, wherein the at least one controller checks that all permission messages associated with requests that preceded the request associated with the current permission message have been received so that it can then issue an update message to the resource node (the resource node can then change the state of the target resource to the free state). The rest of the limitations of the claim deal with a network of resource nodes and control nodes, wherein the control nodes issue requests to access resources held with in the resource nodes, said resources being maintained in a locked or free state. Such a system of resource locking and access exists in the prior art, particularly in U.S. Patent No. 4,435,766, U.S. Patent No. 5,551,046, U.S. Patent No. 5,673,399, U.S. Patent No. 5,694,556, U.S. Patent No. 6,138,192, U.S. Patent No. 6,182,186, U.S. Patent No. 6,353,869, U.S. Patent No. 7,174,406, and U.S. Patent No. 7,380,247. However prior art teaching that a controller waits until all previous requests have been granted before a target resource is released has not been found to exist. Therefore, the limitations discussed above when taken in consideration with the rest of the claim in its entirety distinguish the invention from the prior art.

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 Claims 16-21 are considered to be in condition for allowance based on their dependence on Claim 15.

- 4 Claim 22 is considered to be in condition for allowance, particularly due to the limitations of the last two sections of the claim, wherein the at least one controller checks that all permission messages associated with requests that preceded the request associated with the current permission message have been received so that it can then issue an update message to the resource node (the resource node can then change the state of the target resource to the free state). The rest of the limitations of the claim deal with a network of resource nodes and control nodes, wherein the control nodes issue requests to access resources held with in the resource nodes, said resources being maintained in a locked or free state. Such a method of resource locking and access exists in the prior art, particularly in U.S. Patent No. 4,435,766, U.S. Patent No. 5.551.046, U.S. Patent No. 5.673.399, U.S. Patent No. 5.694.556, U.S. Patent No. 6,138,192, U.S. Patent No. 6,182,186, U.S. Patent No. 6,353,869, U.S. Patent No. 7,174,406, and U.S. Patent No. 7,380,247. However prior art teaching that a controller waits until all previous requests have been granted before a target resource is released has not been found to exist. Therefore, the limitations discussed above when taken in consideration with the rest of the claim in its entirety distinguish the invention from the prior art.
- Claims 23-26 are considered to be in condition for allowance based on their dependence on Claim 22.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy S. Cerullo whose telephone number is (571)272-3634. The examiner can normally be reached on Tuesday - Friday, 8:00-4:00; Alternate Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S. C./ Examiner, Art Unit 2111

/MARK RINEHART/ Supervisory Patent Examiner, Art Unit 2111